

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start		Rating **	A	Issue No.	32
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD1600_01_s _ 2013_32				
Comment Code					
Inspector Comment					
RD 1600 has copies of the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	33
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD1600_01_s _ 2013_33				
Comment Code					
Inspector Comment					
RD 1600 maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	34
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD1600_01_s _ 2013_34				
Comment Code					
Inspector Comment					
RD 1600 has a written flood response plan and flood response training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

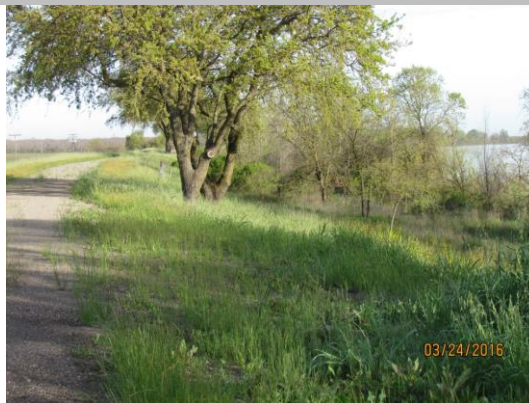
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.11	Rating **	M	Issue No.	36
LM End	10.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.676588 °	38.765423 °
				-121.631297 °	-121.635007 °
DWR ID	DWR_RD1600_01_f_2015_36				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_36_20160407_00098.jpg



View of the vegetation on the waterward side of the levee looking upstream. Spring 2016.

LM Start	0.11	Rating **	M	Issue No.	26	
LM End	10.45	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.676594 °		38.765422 °
				-121.631295 °		-121.635009 °
DWR ID	DWR_RD1600_01_s_2016_26					
Comment Code						
V1 : Control annual grass and weeds on the levee slopes and easements.						
Inspector Comment						

Photo 1 of 1 : SP_2016_RD1600_191_26_20160407_00097.jpg



View of the vegetation on the landward side of the levee looking upstream. Spring 2016.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.12	Rating **	M	Issue No.	38
LM End	0.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.676654 °	38.676654 °
				-121.631348 °	-121.631348 °
DWR ID	DWR_RD1600_01_f_2015_38				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_38_20160304_00033.jpg



View of a slope depression on the landward side of the levee looking downstream. Fall 2015.

LM Start	0.21	Rating **	M	Issue No.	39
LM End	0.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.677766 °	38.677766 °
				-121.632123 °	-121.632123 °
DWR ID	DWR_RD1600_01_f_2015_39				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_39_20160304_00034.jpg



View of the slope stability on the landward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.33	Rating **	M	Issue No.	40
LM End	0.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.679472 °	38.679472 °
				-121.633053 °	-121.633053 °
DWR ID	DWR_RD1600_01_f_2015_40				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_40_20160304_00035.jpg



View of the rodent hole on the landward side of the levee looking upstream. Fall 2015.

LM Start	0.53	Rating **	M	Issue No.	133	
LM End	0.53	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.682140 °		38.682140 °
				-121.634083 °		-121.634083 °
DWR ID	DWR_RD1600_01_f_2013_133					
Comment Code						
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.						
Inspector Comment						

Photo 1 of 1 : SP_2016_RD1600_191_133_20160304_00055.jpg



View of the slope stability on the landward side of the levee. Fall 2015.

LM Start	0.56	Rating **	M	Issue No.	7
LM End	0.66	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.682707 °	38.684106 °
				-121.633830 °	-121.634219 °
DWR ID	DWR_RD1600_01_s_2016_7				
Comment Code					
Inspector Comment					
2000 - Very cohesive vertical bank. 2003 - Some minor new erosion. 2006 - Some minor erosion in old pockets. 2009 - Minimal new erosion. 2011 - Multiple new erosion pockets and a few new tree popouts. 2015: No observed changes. [2015 Site ID: SAC_71-3_R]					

Photo 1 of 1 : SP_2016_RD1600_191_7_20160304_00009.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.62	Rating **	M	Issue No.	29
LM End	0.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.683415 °	38.683415 °
				-121.634448 °	-121.634448 °
DWR ID	DWR_RD1600_01_s _ 2016_29				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Recommend removal of willow trees.					

Photo 1 of 2 : SP_2016_RD1600_191_29_20160407_00101.jpg



Perspective view of the willows on the waterward side of the levee looking upstream. Spring 2016.

LM Start	0.62	Rating **	M	Issue No.	29 (cont)
LM End	0.62	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_29_20160407_00103.jpg



Willows are growing on the waterward side of the levee. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.78	Rating **	A/W	Issue No.	624
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.685713 °	38.685713 °
				-121.634985 °	-121.634985 °
DWR ID	DWR_RD1600_01_s_2015_624				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
The tree is dying and needs to be monitored.					

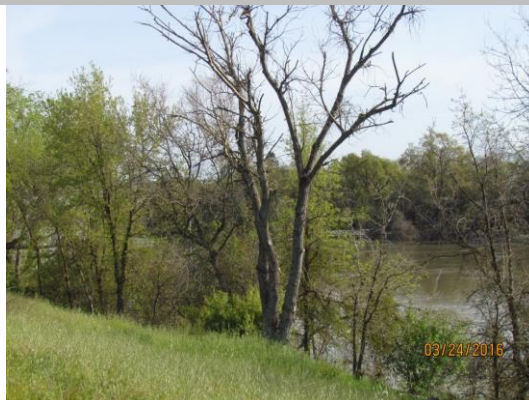
Photo 1 of 1 : SP_2016_RD1600_191_624_20160407_00104.jpg



View of the dying tree on the waterward side of the levee looking upstream. Spring 2016.

LM Start	0.83	Rating **	A/W	Issue No.	625
LM End	0.83	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.686515 °	38.686515 °
				-121.635134 °	-121.635134 °
DWR ID	DWR_RD1600_01_s_2014_625				
Comment Code					
V7 : Trees / Woody Vegetation					
Inspector Comment					
The tree is dying and needs to be monitored so there is no threat to the levee					

Photo 1 of 1 : SP_2016_RD1600_191_625_20160407_00105.jpg



View of the tree on the waterward side of the levee. Spring 2016.

LM Start	0.97	Rating **	M	Issue No.	134
LM End	0.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.688454 °	38.688454 °
				-121.635528 °	-121.635528 °
DWR ID	DWR_RD1600_01_f_2013_134				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_134_20160304_00056.jpg



The levee has a deep depression caused by slope stability. Fall 2013

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WS : Water Side
CR : Crown

**** Rating**
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	0.97	Rating **	M	Issue No.	134 (cont)	
LM End	0.97	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.688454 °		38.688454 °
				-121.635528 °		-121.635528 °
DWR ID	DWR_RD1600_01_f_2013_134					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						

Photo 2 of 2 : SP_2016_RD1600_191_134_20160304_00057.jpg



View of the depression of the slope on the landward side of the levee looking downstream. Fall 2015.

LM Start	1.01	Rating **	A/W	Issue No.	22
LM End	1.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.689092 °	38.690368 °
				-121.635616 °	-121.635669 °
DWR ID	DWR_RD1600_01_s_2012_22				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_22_20160407_00108.jpg



View of the revegetation site at the berm edge on the waterward side of the levee looking upstream. Spring 2016.

LM Start	1.01	Rating **	A/W	Issue No.	22 (cont)
LM End	1.10	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_22_20160407_00107.jpg



Sign stating revegetation site. Spring 2016.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	1.39	Rating **	M	Issue No.	4
LM End	1.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.694395 °	38.694395 °
				-121.634376 °	-121.634376 °
DWR ID	DWR_RD1600_01_f_2012_4				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Damage looks like caused by vehicles.					

Photo 1 of 2 : SP_2016_RD1600_191_4_20160304_00004.jpg



Erosion from vehicles on levee slope. Spring 2013

LM Start	1.39	Rating **	M	Issue No.	4 (cont)
LM End	1.39	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD1600_191_4_20160304_00005.jpg



View of the slope stability caused by vehicles on the landward side of the levee looking upstream. Fall 2015.

LM Start	1.53	Rating **	M	Issue No.	50
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.696341 °	38.696918 °
				-121.633417 °	-121.633044 °
DWR ID	DWR_RD1600_01_s_2016_50				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove willows on waterward side of the levee.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	1.70	Rating **	M	Issue No.	70
LM End	1.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.698414 °	38.698414 °
				-121.631874 °	-121.631874 °
DWR ID	DWR_RD1600_01_s _ 2016_70				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	1.72	Rating **	M	Issue No.	71
LM End	1.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.698628 °	38.698628 °
				-121.631694 °	-121.631694 °
DWR ID	DWR_RD1600_01_s _ 2016_71				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_71_20160407_00111.jpg



View of the ruts on the shoulder of the levee on the waterward side.
Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.01	Rating **	U	Issue No.	72
LM End	2.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.701605 °	38.701605 °
				-121.627954 °	-121.627954 °
DWR ID	DWR_RD1600_01_s_2016_72				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion seems to be caused by rain runoffs. Slope is graveled. Unsure if it is being used as a ramp.					

Photo 1 of 2 : SP_2016_RD1600_191_72_20160407_00113.jpg



Erosion is on the landward side of the levee about midway from the shoulder of the levee. Spring 2016.

LM Start	2.01	Rating **	U	Issue No.	72 (cont)
LM End	2.01	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD1600_191_72_20160407_00114.jpg



Perspective view of the erosion on the landward side of the levee looking upstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.02	Rating **	M	Issue No.	52
LM End	2.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.701753 °	38.701753 °
				-121.627734 °	-121.627734 °
DWR ID	DWR_RD1600_01_f_2015_52				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_52_20160304_00044.jpg



View of the slope stability caused by vehicles on the waterward side of the levee looking upstream. Fall 2015.

LM Start	2.06	Rating **	M	Issue No.	53
LM End	2.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.702063 °	38.702063 °
				-121.627214 °	-121.627214 °
DWR ID	DWR_RD1600_01_f_2015_53				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_53_20160304_00045.jpg



View of the rodent hole on the waterward side of the levee. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.10	Rating **	M	Issue No.	55
LM End	2.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.702416 °	38.702416 °
				-121.626593 °	-121.626593 °
DWR ID	DWR_RD1600_01_f_2015_55				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_55_20160304_00047.jpg



View of the slope stability damaged by vehicles on the landward side of the levee. Fall 2015.

LM Start	2.17	Rating **	M	Issue No.	56
LM End	2.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.703025 °	38.703025 °
				-121.625605 °	-121.625605 °
DWR ID	DWR_RD1600_01_f_2015_56				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_56_20160304_00048.jpg



View of the sloughing on the landward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	2.35	Rating **	A/W	Issue No.	35
LM End	2.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.704624 °	38.705152 °
				-121.623034 °	-121.622187 °
DWR ID	DWR_RD1600_01_s _ 2012_35				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_35_20160407_00116.jpg



Sign for revegetation site. Spring 2016.

LM Start	2.35	Rating **	A/W	Issue No.	35 (cont)
LM End	2.40	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_35_20160407_00115.jpg



View of the revegetation site on the waterward side of the levee looking upstream. Spring 2016.

LM Start	3.04	Rating **	A/W	Issue No.	37
LM End	3.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.711597 °	38.711597 °
				-121.613890 °	-121.613890 °
DWR ID	DWR_RD1600_01_s _ 2012_37				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	3.06	Rating **	C	Issue No.	64
LM End	3.06	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.711869 °	38.711869 °
				-121.613635 °	-121.613635 °
DWR ID	DWR_RD1600_01_f_2015_64				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Issue has been corrected.					

No Photos

LM Start	3.58	Rating **	M	Issue No.	3
LM End	3.83	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.717770 °	38.721351 °
				-121.607423 °	-121.606414 °
DWR ID	DWR_RD1600_01_s_2016_3				
Comment Code					
Inspector Comment					
1997 - Steep high bank. 2005 - Some small pockets in the low toe near the waterline. 2006 - Minor slope clearing. 2010 - Minor new erosion. 2011 - Multiple trees have fallen since last year. Some other trees look ready to fall. Significant new erosion since last year. 2012 - Minor new erosion. 2013 - Minor new erosion. 2015: New minor erosion at toe. [2015 Site ID: SAC_74-4_R]					

Photo 1 of 1 : SP_2016_RD1600_191_3_20160304_00003.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	3.83	Rating **	C	Issue No.	66
LM End	3.83	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.721456 °	38.721456 °
				-121.606855 °	-121.606855 °
DWR ID	DWR_RD1600_01_f_2015_66				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Issue has been corrected.					

No Photos

LM Start	3.89	Rating **	M	Issue No.	67
LM End	3.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.722300 °	38.722300 °
				-121.606769 °	-121.606769 °
DWR ID	DWR_RD1600_01_f_2015_67				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_67_20160304_00053.jpg



View of the shoulder damaged by vehicles on the waterward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.34	Rating **	M	Issue No.	8
LM End	4.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.728684 °	38.736110 °
				-121.605844 °	-121.604153 °
DWR ID	DWR_RD1600_01_s_2016_8				
Comment Code					
Inspector Comment					
1997 - Very steep bank. 2005 - Lots of small trees down along the bank at the upstream end. 2006 - Minor new erosion, but slow. 2010 - Almost all of the roots are exposed on the trees, appears ready to fall. 2011 - New erosion and tree popouts. 2012 - Site has become overgrown with vegetation, making it hard to observe. 2015: Dense vegetation made observation difficult. [2015 Site ID: SAC 75-3 R]					

Photo 1 of 1 : SP_2016_RD1600_191_8_20160304_00010.jpg



USACE 2013 Photo #1

LM Start	4.66	Rating **	M	Issue No.	41
LM End	4.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.733294 °	38.733294 °
				-121.605484 °	-121.605484 °
DWR ID	DWR_RD1600_01_f_2015_41				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_41_20160304_00036.jpg



View of the bulge at the toe of the levee on the landward side looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.75	Rating **	M	Issue No.	1193
LM End	4.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.734557 °	38.734557 °
				-121.605133 °	-121.605133 °
DWR ID	DWR_RD1600_01_s_2015_1193				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.76	Rating **	M	Issue No.	1194
LM End	4.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.734760 °	38.734760 °
				-121.605008 °	-121.605008 °
DWR ID	DWR_RD1600_01_s_2015_1194				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.77	Rating **	M	Issue No.	141
LM End	4.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.734840 °	38.734840 °
				-121.605026 °	-121.605026 °
DWR ID	DWR_RD1600_01_f_2013_141				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_141_20160304_00058.jpg



The erosion at the shoulder of the levee could be slope instability. Fall 2013

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.77	Rating **	M	Issue No.	141 (cont)	
LM End	4.77	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			38.734840 °		38.734840 °
				-121.605026 °		-121.605026 °
DWR ID	DWR_RD1600_01_f_2013_141					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						

Photo 2 of 2 : SP_2016_RD1600_191_141_20160304_00059.jpg



View of the erosion on the landward side of the levee looking upstream.
Fall 2015.

LM Start	4.78	Rating **	M	Issue No.	1195
LM End	4.78	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.734972 °	38.734972 °
				-121.604953 °	-121.604953 °
DWR ID	DWR_RD1600_01_s_2015_1195				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	4.80	Rating **	U	Issue No.	1196
LM End	4.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.735312 °	38.735312 °
				-121.604890 °	-121.604890 °
DWR ID	DWR_RD1600_01_s_2015_1196				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	4.85	Rating **	M	Issue No.	1197
LM End	4.85	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.736028 °	38.736028 °	
			-121.604697 °	-121.604697 °	
DWR ID	DWR_RD1600_01_s _ 2015_1197				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	5.26	Rating **	C	Issue No.	43
LM End	5.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.741649 °	38.741649 °	
			-121.602500 °	-121.602500 °	
DWR ID	DWR_RD1600_01_f _ 2015_43				
Comment Code					
TR : Tree or limb					
Inspector Comment					

No Photos

LM Start	5.40	Rating **	M	Issue No.	44
LM End	5.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Crown Surface / Depressions / Rutting		38.743585 °	38.743585 °	
			-121.601447 °	-121.601447 °	
DWR ID	DWR_RD1600_01_s _ 2016_44				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	5.41	Rating **	A/W	Issue No.	13
LM End	5.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.743632 °	38.743632 °
				-121.601173 °	-121.601173 °
DWR ID	DWR_RD1600_01_s_2012_13				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	5.44	Rating **	A/W	Issue No.	19
LM End	5.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.744118 °	38.748210 °
				-121.601104 °	-121.598025 °
DWR ID	DWR_RD1600_01_s_2012_19				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Levee district had us add this because of the loss of the berm over years of water flows. Erosion is at the waters edge. Walnut trees are close to edge now.					

No Photos

LM Start	5.57	Rating **	U	Issue No.	46
LM End	5.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.745677 °	38.745677 °
				-121.599944 °	-121.599944 °
DWR ID	DWR_RD1600_01_f_2015_46				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_46_20160304_00040.jpg



View of the animal holes on the landward side of the levee. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	6.09	Rating **	M	Issue No.	58
LM End	6.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.752358 °	38.752358 °
				-121.595608 °	-121.595608 °
DWR ID	DWR_RD1600_01_f_2015_58				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_58_20160304_00049.jpg



View of the slope stability on the waterward side of the levee looking upstream. Fall 2015.

LM Start	6.30	Rating **	A/W	Issue No.	9
LM End	6.36	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.755246 °	38.756186 °
				-121.594206 °	-121.594024 °
DWR ID	DWR_RD1600_01_s_2016_9				
Comment Code					
Inspector Comment					
2011 - Large vertical eroded face from a rotational failure just below pump. 2015: Does not meet criterial. [2015 Site ID: SAC_77-0_R]					

Photo 1 of 1 : SP_2016_RD1600_191_9_20160304_00011.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	6.39	Rating **	M	Issue No.	1199
LM End	6.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.756612 °	38.756612 °
				-121.594370 °	-121.594370 °
DWR ID	DWR_RD1600_01_s_2015_1199				
Comment Code					
Inspector Comment					
The erosion is caused by the water coming from the siphon breaker.					

Photo 1 of 1 : SP_2016_RD1600_191_1199_20160304_00071.jpg



View of erosion and pipe on the landward side of the levee looking upstream. Spring 2015.

LM Start	6.60	Rating **	M	Issue No.	631
LM End	6.62	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.759633 °	38.760013 °
				-121.594128 °	-121.594148 °
DWR ID	DWR_RD1600_01_s_2014_631				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_631_20160304_00066.jpg



The tall brush and vegetation blocks visibility. Spring 2014

LM Start	6.60	Rating **	M	Issue No.	631 (cont)
LM End	6.62	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD1600_191_631_20160304_00067.jpg



View of the brush and vegetation on the landward side of the levee. Fall 2015.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

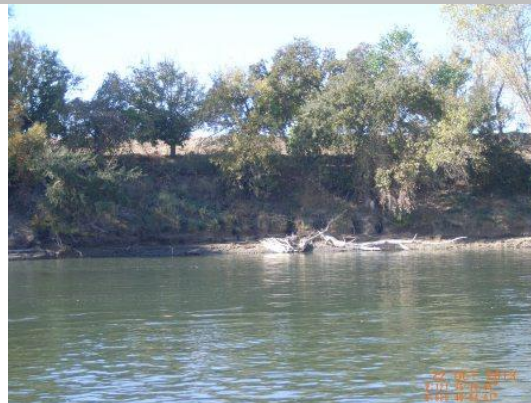
Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	6.95	Rating **	M	Issue No.	6
LM End	6.98	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.764801 °	38.765219 °
				-121.594926 °	-121.595049 °
DWR ID	DWR_RD1600_01_s_2016_6				
Comment Code					
Inspector Comment					
2006 - Eddy scour off end of rock causing erosion and scour hole near levee. Sandy silt bank with rock on upstream end. 2010 - Trees are leaning more, minor new erosion. 2011 - Many of the tree roots have scoured out and trees look ready to fall. 2015: No observed changes. [2015 Site ID: SAC_77-7_R]					

Photo 1 of 1 : SP_2016_RD1600_191_6_20160304_00008.jpg



USACE 2013 Photo #1

LM Start	6.97	Rating **	M	Issue No.	27
LM End	6.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.764974 °	38.764974 °
				-121.595533 °	-121.595533 °
DWR ID	DWR_RD1600_01_s_2012_27				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 2 : SP_2016_RD1600_191_27_20160304_00022.jpg



The erosion appears to be moving closer to the shoulder.

LM Start	6.97	Rating **	M	Issue No.	27 (cont)
LM End	6.97	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2016_RD1600_191_27_20160304_00023.jpg



The erosion seems to have been fixed. There still seems to be some erosion on the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	6.97	Rating **	M	Issue No.	30
LM End	6.97	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.764980 °	38.764980 °
				-121.595513 °	-121.595513 °
DWR ID	DWR_RD1600_01_s _ 2013_30				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

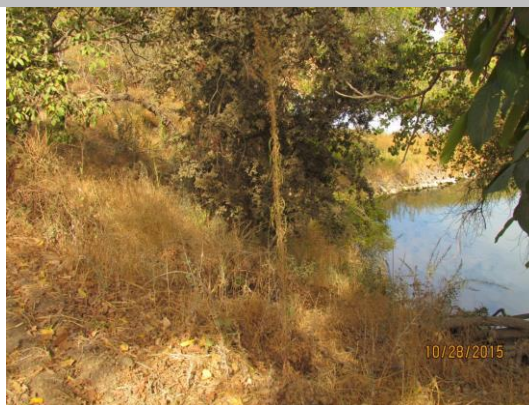
Photo 1 of 2 : SP_2016_RD1600_191_30_20160304_00026.jpg



Erosion is into the berm area and needs to be monitored. Spring 2013

LM Start	6.97	Rating **	M	Issue No.	30 (cont)
LM End	6.97	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_191_30_20160304_00027.jpg



View of the erosion into the berm area that needs to be monitored. Fall 2015.

LM Start	7.10	Rating **	M	Issue No.	20
LM End	7.10	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.766691 °	38.766691 °
				-121.596300 °	-121.596300 °
DWR ID	DWR_RD1600_01_s _ 2012_20				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 4 : SP_2016_RD1600_191_20_20160304_00013.jpg



This another view of the site.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	7.10	Rating **	M	Issue No.	20 (cont)	
LM End	7.10	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.766691 °	38.766691 °	
				-121.596300 °	-121.596300 °	
DWR ID	DWR_RD1600_01_s_2012_20					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

LM Start	7.10	Rating **	M	Issue No.	20 (cont)
LM End	7.10	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP_2016_RD1600_191_20_20160304_00014.jpg



View of the erosion in the berm area on the waterward side looking upstream. Fall 2015.

Photo 3 of 4 : SP_2016_RD1600_191_20_20160304_00015.jpg



The erosion is eroding away at the berm area.

LM Start	7.10	Rating **	M	Issue No.	20 (cont)
LM End	7.10	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP_2016_RD1600_191_20_20160304_00016.jpg



Looking at the erosion site on the berm. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	7.21	Rating **	M	Issue No.	61
LM End	7.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.768094 °	38.768094 °
				-121.597075 °	-121.597075 °
DWR ID	DWR_RD1600_01_f_2015_61				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_191_61_20160304_00050.jpg



View of the erosion on the landward side of the levee looking downstream. Fall 2015.

LM Start	7.23	Rating **	M	Issue No.	21
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.768409 °	38.768409 °
				-121.597213 °	-121.597213 °
DWR ID	DWR_RD1600_01_s_2012_21				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 3 : SP_2016_RD1600_191_21_20160304_00017.jpg



The erosion is eroding away the berm area.

LM Start	7.23	Rating **	M	Issue No.	21 (cont)
LM End	7.23	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2016_RD1600_191_21_20160304_00018.jpg



The bank is eroding away and has become very steep.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	7.23	Rating **	M	Issue No.	21 (cont)	
LM End	7.23	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.768409 °		38.768409 °
				-121.597213 °		-121.597213 °
DWR ID	DWR_RD1600_01_s_2012_21					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

Photo 3 of 3 : SP_2016_RD1600_191_21_20160304_00019.jpg



View of the erosion along the waterward berm of the levee. Fall 2015.

LM Start	8.18	Rating **	M	Issue No.	63
LM End	8.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.778922 °	38.778922 °
				-121.608075 °	-121.608075 °
DWR ID	DWR_RD1600_01_f_2015_63				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	8.21	Rating **	M	Issue No.	1200
LM End	8.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.778938 °	38.778938 °
				-121.608595 °	-121.608595 °
DWR ID	DWR_RD1600_01_s_2015_1200				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	10.46	03/24/2016 03/24/2016	Jai Lor

LM Start	9.59	Rating **	M	Issue No.	1201
LM End	9.59	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.776493 °	38.776493 °
				-121.629160 °	-121.629160 °
DWR ID	DWR_RD1600_01_s_2015_1201				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	10.38	Rating **	M	Issue No.	69
LM End	10.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.766293 °	38.766293 °
				-121.634349 °	-121.634349 °
DWR ID	DWR_RD1600_01_f_2015_69				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	0.00	Rating **	M	Issue No.	4
LM End	4.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.736225 °	38.676787 °
				-121.633653 °	-121.643178 °
DWR ID	DWR_RD1600_02_f_2015_4				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_192_4_20160407_00012.jpg



View of the vegetation on the landward side of the levee looking downstream. Spring 2016.

LM Start	0.00	Rating **	M	Issue No.	5
LM End	4.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.736225 °	38.676785 °
				-121.633652 °	-121.643179 °
DWR ID	DWR_RD1600_02_f_2015_5				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_192_5_20160407_00013.jpg



View of the vegetation on the waterward side of the levee looking downstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	1.57	Rating **	M	Issue No.	8
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.713733 °	38.713733 °
				-121.635872 °	-121.635872 °
DWR ID	DWR_RD1600_02_f_2015_8				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2016_RD1600_192_8_20160304_00003.jpg



View of the slope stability on the waterward side of the levee looking downstream. Fall 2015.

LM Start	1.79	Rating **	M	Issue No.	14
LM End	2.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.710763 °	38.707116 °
				-121.637147 °	-121.638722 °
DWR ID	DWR_RD1600_02_s_2012_14				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 3 : SP_2016_RD1600_192_14_20160304_00005.jpg



A closer view of the wave wash damage along the bypass.

LM Start	1.79	Rating **	M	Issue No.	14 (cont)
LM End	2.05	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2016_RD1600_192_14_20160304_00006.jpg



Wave wash damage along the slope the cut is 1'-2'.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	1.79	Rating **	M	Issue No.	14 (cont)	
LM End	2.05	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.710763 °	38.707116 °	
				-121.637147 °	-121.638722 °	
DWR ID	DWR_RD1600_02_s_2012_14					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						

Photo 3 of 3 : SP_2016_RD1600_192_14_20160304_00007.jpg



View of the erosion on the waterward side of the levee looking downstream. Fall 2015.

LM Start	2.16	Rating **	M	Issue No.	15
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.705614 °	38.704052 °
				-121.639357 °	-121.640016 °
DWR ID	DWR_RD1600_02_s_2012_15				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
This is wave wash damage caused by last high water.					

Photo 1 of 2 : SP_2016_RD1600_192_15_20160304_00008.jpg



Looking upstream a deeper cut of 2'-3' damage.

LM Start	2.16	Rating **	M	Issue No.	15 (cont)
LM End	2.27	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2016_RD1600_192_15_20160304_00009.jpg



This is wave wash damage along the toe of the levee looking downstream.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

LM Start	2.77	Rating **	M	Issue No.	3
LM End	2.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.697266 °	38.697266 °	
			-121.642952 °	-121.642952 °	
DWR ID	DWR_RD1600_02_s _ 2016_3				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.41	Rating **	M	Issue No.	300
LM End	3.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.688243 °	38.688243 °	
			-121.645010 °	-121.645010 °	
DWR ID	DWR_RD1600_02_s _ 2015_300				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	3.53	Rating **	M	Issue No.	299
LM End	3.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.686436 °	38.686436 °	
			-121.644799 °	-121.644799 °	
DWR ID	DWR_RD1600_02_s _ 2015_299				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2016

Reclamation District No. 1600 Mull

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	4.23	03/24/2016 03/24/2016	Jai Lor

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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